

Claims

1. Handover-method in a cellular radio system including base transceiver stations (BTS) and mobile stations (MS), in which cellular radio system at least two frequency bands are used, and wherein each base transceiver station transmits a broadcast intended for all mobile stations in a first frequency range, in which method handover to the second frequency range is started, characterized in that

bursts sent by a mobile station (MS) and relating to the handover signalling are measured at the base transceiver station (BTS),

the measurement results are compared with a pre-established criterion, and

handover is completed only when the criterion is met.

2. Method as defined in claim 1, characterized in that

handover is interrupted, when the established criterion is not met,

and

the communication between mobile station and network is continued on the initial channel, from which the handover started.

3. Method as defined in claim 2, characterized in that the mobile station (MS) is notified of the handover interruption.

4. Method as defined in claim 1, characterized in that the signal level of the mobile station's bursts is measured.

5. Method as defined in claim 1, characterized in that the signal-to-noise ratio of the mobile station's bursts is measured.

6. Method as defined in claim 1, characterized in that a pre-established criterion (K) is transmitted to the base transceiver station in connection with the channel assignment signalling (51).

7. Method as defined in claim 1, characterized in that a pre-established criterion (K) is transmitted to the base transceiver station in an O&M procedure.

8. Method as defined in claim 1, characterized in that on a new channel assigned for the connection the bursts of connection request signalling (25) received from the mobile station are measured at the base transceiver station.

9. Method as defined in claim 1, characterized in that the bursts of link connection set up signalling (32) received from the mobile station are measured at the base transceiver station.

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as defined in claim 1

10. Method ~~as defined in any one of claims 1-9,~~
characterized in that the first frequency range is a frequency range
of a lower frequency than the second frequency range.

11. Handover-method in a cellular radio system including base
transceiver stations (BTS) and mobile stations (MS), in which method
handover from an initial channel to a target channel is started,
characterized in that

bursts transmitted by the mobile station (MS) and relating to the
handover

signalling are measured at the base transceiver station (BTS),
the measurement results are compared with a pre-established
criterion, and

handover is completed only when the criterion is met.

12. Method as defined in claim 11, characterized in that
the handover is interrupted, when the established criterion is not
met, and

the communication between the mobile station and the network is
continued on the initial channel, from which handover started.

13. Method as defined in claim 12, characterized in that
the mobile station (MS) is notified of the handover interruption.

14. Method as defined in claim 11, characterized in that
in

the method the signal level of the mobile station's bursts is
measured.

as defined in claim 11

15. Method ~~as defined in claim 11 or 14,~~ characterized in
that the signal-to-noise ratio of the mobile station's bursts is measured.

16. Method as defined in claim 11, characterized in that a
pre-established criterion (K) is transmitted to the base transceiver station in
connection with the channel assignment request signalling (51).

17. Method as defined in claim 11, characterized in that
the pre-established criterion (K) is transmitted to the base transceiver station
in an O&M procedure.

18. Method as defined in claim 11, characterized in that
on the target channel the bursts of the connection request signalling (25)
received from the mobile station are measured at the base transceiver
station.

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19. Method as defined in claim 11, characterized in that the signal of the link connection set up signalling (32) received from the mobile station is measured at the base transceiver station.

20. Mobile communications system including base transceiver stations (BTS) and mobile stations (MS), characterized in that the mobile communications system is adapted

to start a conditional handover and to supply a criterion (K) for the conditional handover to the base transceiver station,

to measure the signal of the mobile station's (MS) handover signalling at the base transceiver station (BTS),

to compare the measurement results with the pre-established criterion (K), and

to interrupt the handover, when the mobile station signal as a result of the comparison does not meet the pre-established criterion.

21. Base transceiver station including a handover-signalling unit (81) for controlling the handover signalling, characterized in that the base transceiver station also includes

measuring means (82) for measuring the signal of the handover signalling received from the mobile station (MS), and

comparison means (83) for comparing the measurement results of the measuring means with the pre-established criterion (K) for continuation of handover, whereby as a result of the comparison a control signal is obtained for the handover-signalling unit (81).

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